

CELLS AND METHOD FOR PRESERVING CELLS

Inventors: John H. Crowe et al.
Atty Docket No. 010023-000800US

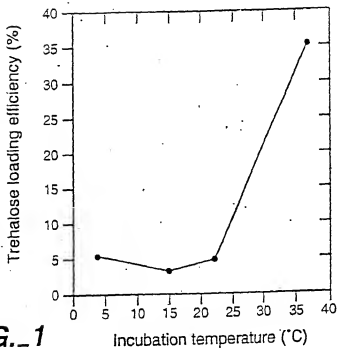


FIG. 1

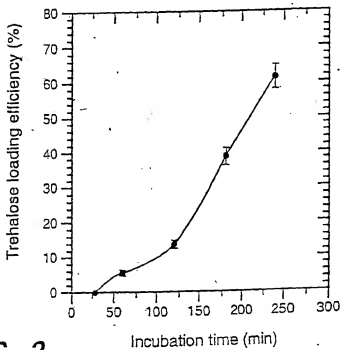


FIG. 2

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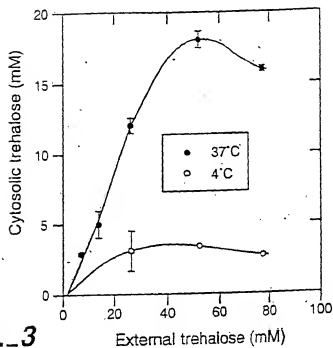


FIG._3

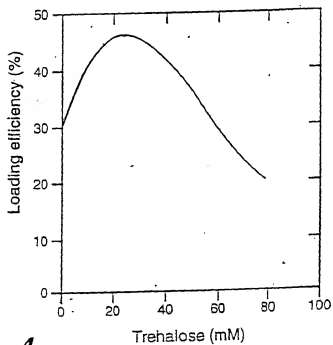


FIG._4

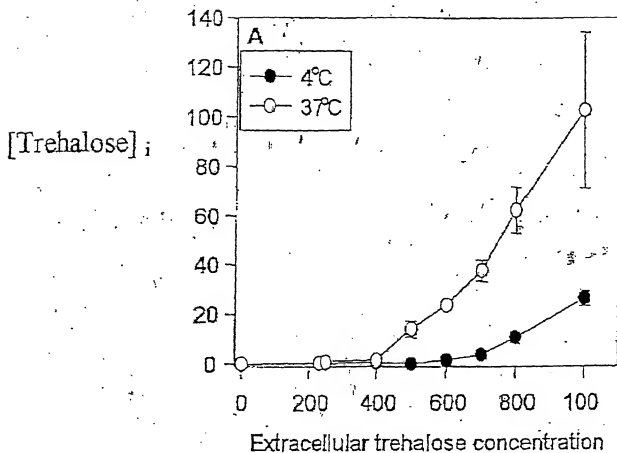


Fig. 5

**Fragility index of RBCs incubated overnight at 4 or 37°C
in the presence of increasing trehalose concentrations**

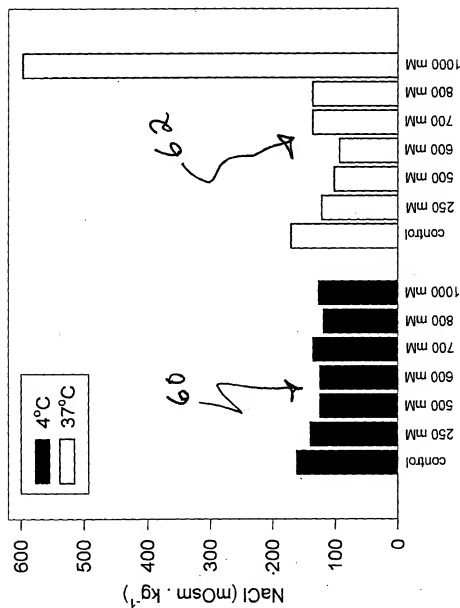


Figure 6

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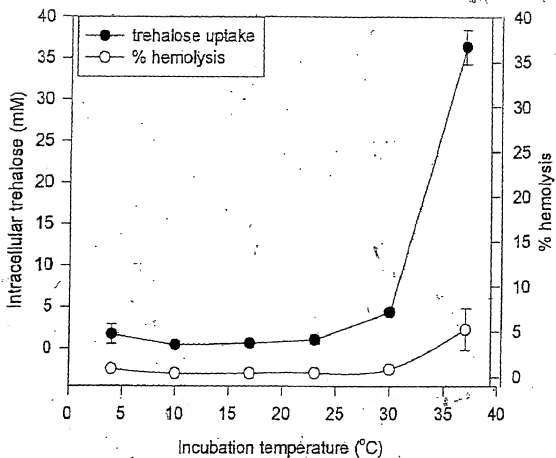


Fig 7

Intracellular trehalose concentration as a function of the osmolarity of the washing buffer.

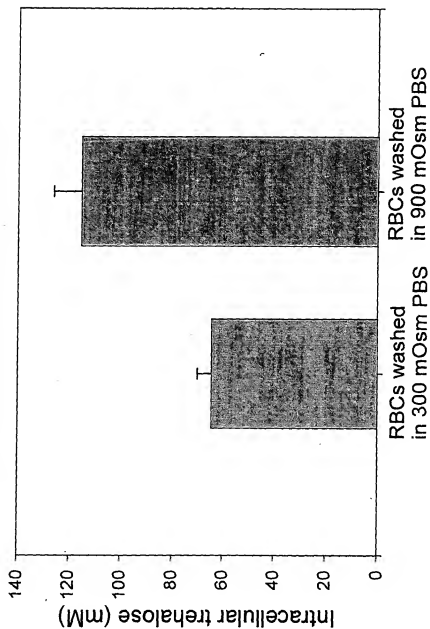


Figure 8

Percent hemolysis of trehalose loaded RBCs as a function of time of incubation in 300 mOsm PBS. RBCs were loaded in 700 mM trehalose/100 mOsm PBS at 35°C for 16 hours and were incubated in 300 mOsm PBS.

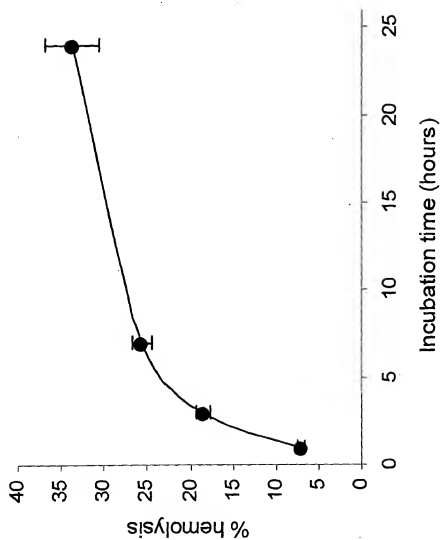


Figure 9

Percent hemolysis of trehalose loaded RBCs as a function of the composition of the incubation buffer. RBCs were loaded in 700 mM trehalose/100 mOsm PBS at 35°C for 16 hours

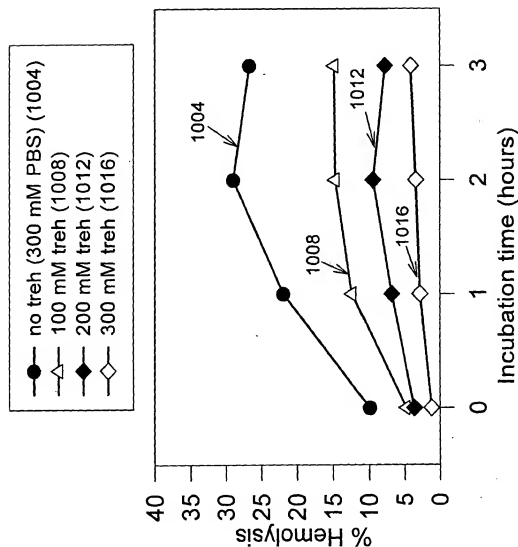


Figure 10

Percent hemolysis of trehalose loaded RBCs as a function of the composition of the incubation buffer.
RBCs were loaded in 700 mM trehalose/100 mOsm PBS at 35°C for 16 hours

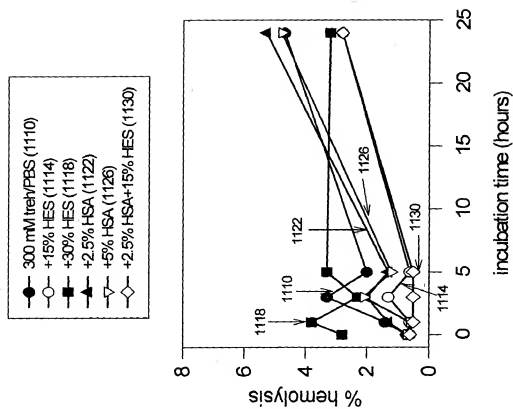
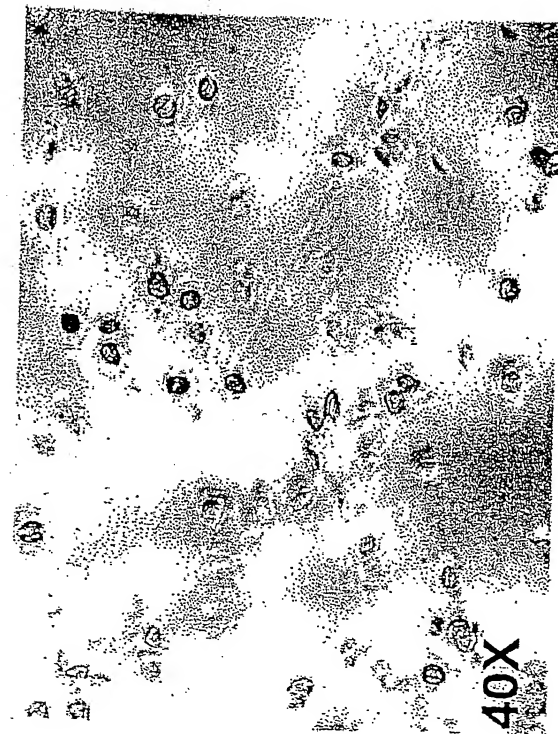


Figure 11

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0 mM

Fig 12

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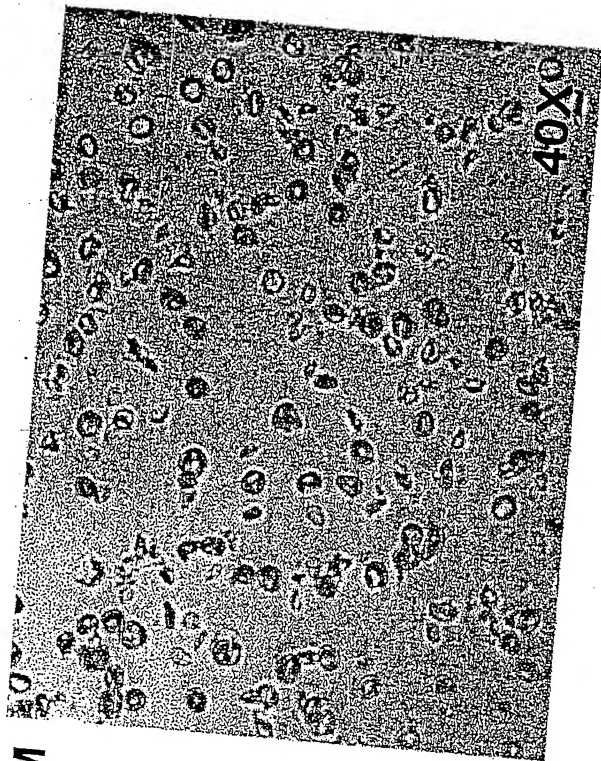


Fig 13

3 mM

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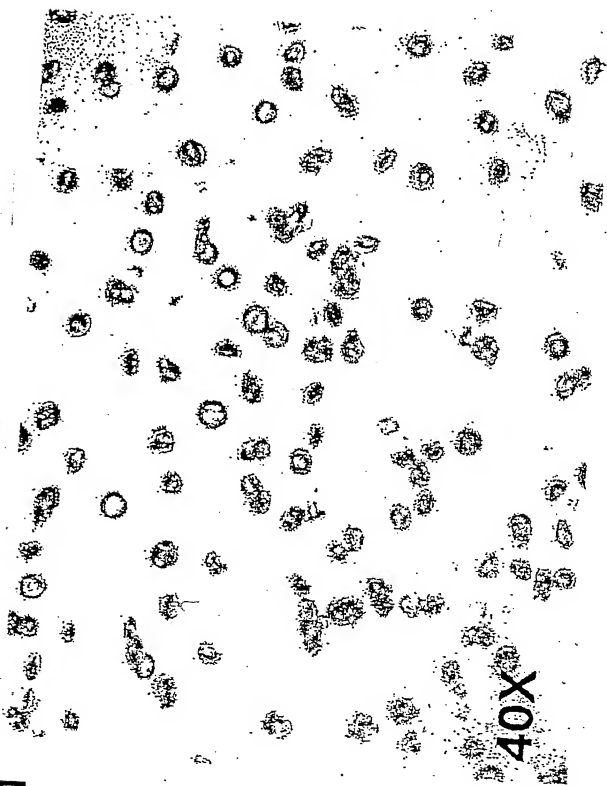
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60 mM

40X

Fig 14



60 mM

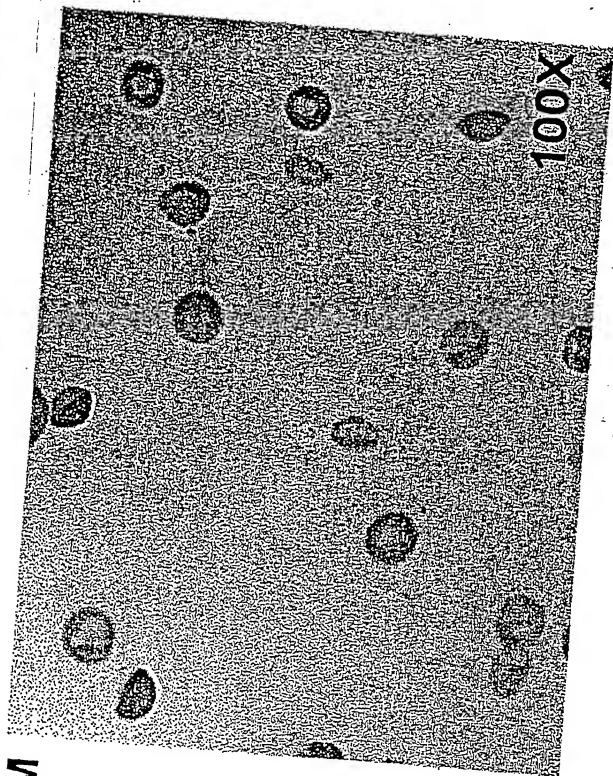


Fig 15

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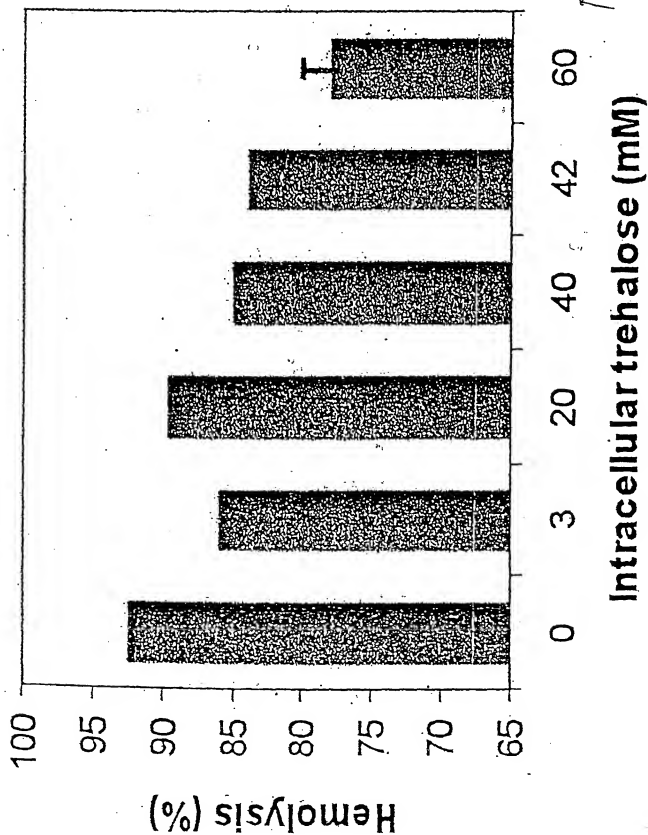
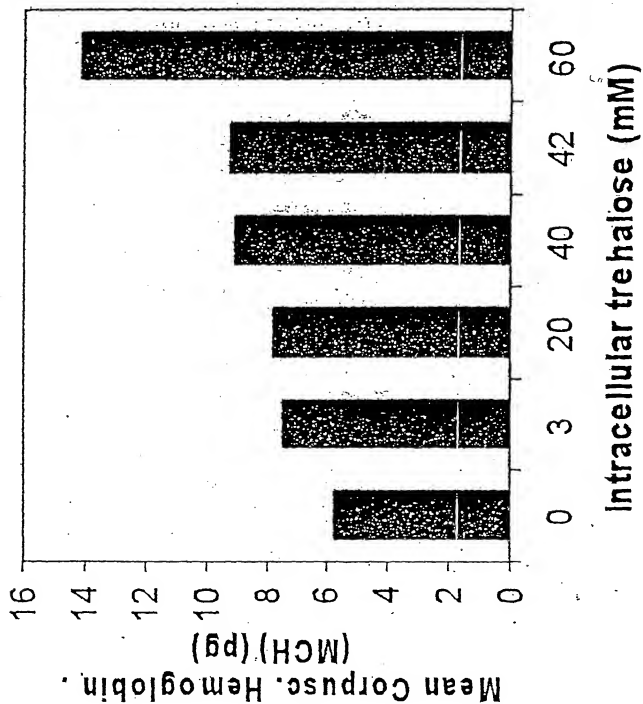


Fig 17



ATP ($\mu\text{mol/g Hb}$) in erythrocytes incubated in 800 mM trehalose and different buffers (see legend) as a function of time of incubation at 40°C

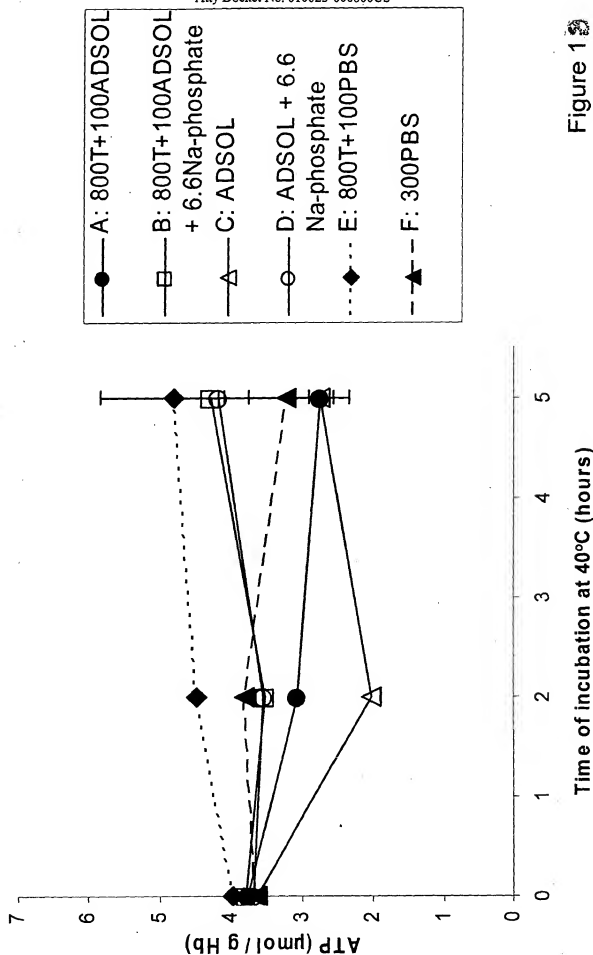


Figure 13

2,3-DPG level in erythrocytes incubated in different buffers as a function of time of incubation at 40°C

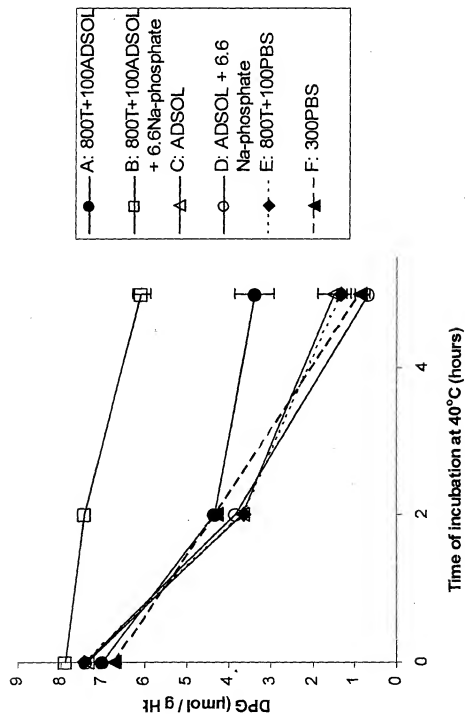
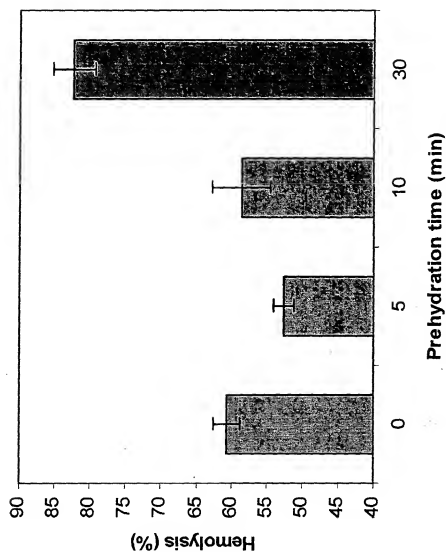


Figure 1c

Effect of time of prehydration on the survival of freeze-dried
and rehydrated erythrocytes



Effect of α -crystallin on the survival of freeze-dried and rehydrated erythrocytes

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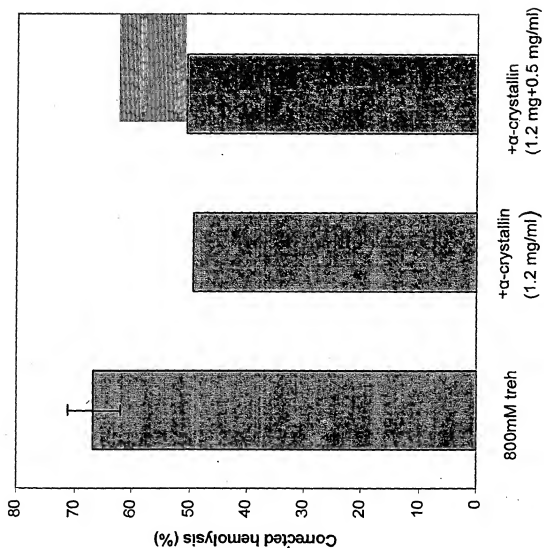


Figure 21

Effect of pre-hydration (5 min), α -crystallin (1.2 mg/ml) and Zn^{2+} (500 μ l) on the survival of freeze-dried and rehydrated erythrocytes.

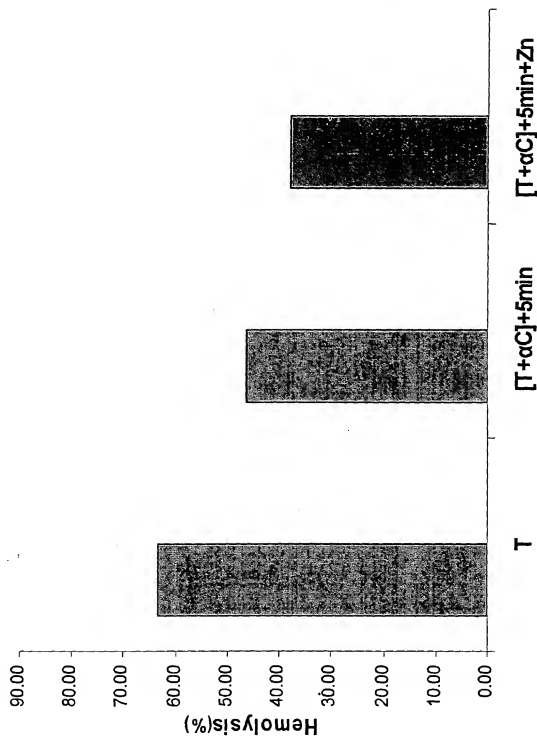


Figure 22

Effect of rejuvenating buffer on the synthesis of ATP and 2,3-DPG in rehydrated erythrocytes.

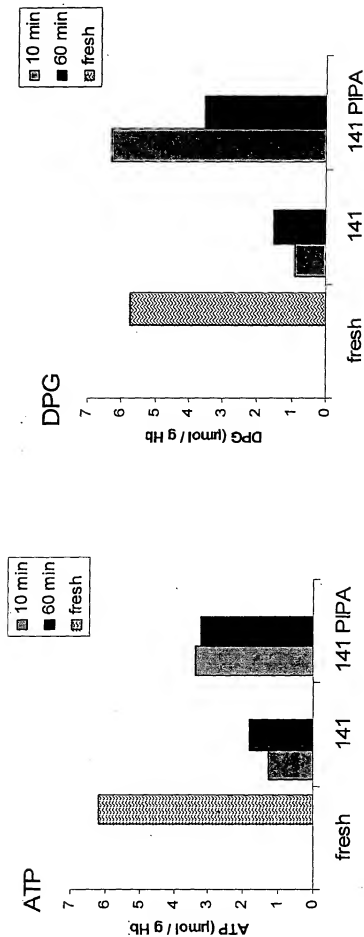


Figure 23